CLAIM LISTING

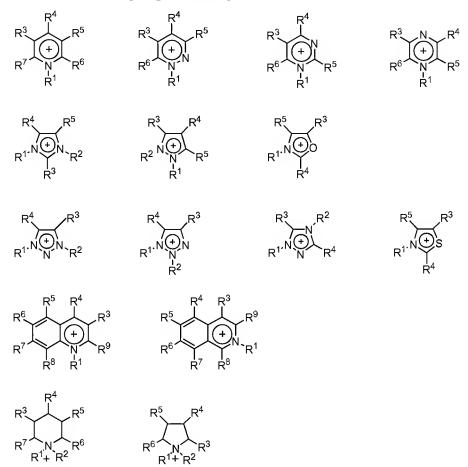
No claims have been amended, canceled, or added. A complete claim listing is included for the convenience of the Examiner.

(Previously Presented) A method for depolymerizing starch comprising
mixing a starch material with an ionic liquid solvent comprising a cation and an
anion to dissolve the starch, and then

treating the dissolved starch by agitating at a temperature and for a period for time to effect depolymerization of the starch into desired depolymerization products.

- 2. (Original) The method according to claim 1 wherein microwave irradiation is applied to assist in dissolution and depolymerization.
- 3. (Previously Presented) The method according to claim 1 wherein pressure is applied to assist in dissolution and depolymerization.
- 4. (Previously Presented) The method according to claim 1 wherein the depolymerization temperature is at least 70°C.
- 5. (Previously Presented) The method according to claim 1 wherein the depolymerization period is at least 5 minutes.
- 6. (Previously Presented) The method according to claim 1 wherein the starch is depolymerized selectively such that the amylose of the starch is depolymerized into sugars and the amylopectin of the starch is retained essentially unchanged.
- 7. (Previously Presented) The method according to claim 1 wherein the starch is depolymerized quantitatively such that both the amylose and the amylopectin of the starch are depolymerized into sugars.

- 8. (Original) The method according to claim 1 wherein the ionic liquid solvent is molten at a temperature of below 200°C.
- 9. (Original) The method according to claim 1 wherein the cation of the ionic liquid solvent is selected from the group consisting of



wherein R^1 and R^2 are independently a C_1 - C_6 alkyl or C_2 - C_6 alkoxyalkyl group, and R^3 , R^4 , R^5 , R^6 , R^7 , R^8 and R^9 are independently hydrogen, a C_1 - C_6 alkyl, C_2 - C_6 alkoxyalkyl or C_1 - C_6 alkoxy group or halogen, and wherein the anion of the ionic liquid solvent is halogen, pseudohalogen, perchlorate or C_1 - C_6 carboxylate.

10. (Previously Presented) The method according to claim 9 wherein said cation comprises

$$R^4$$
 R^5
 R^1
 R^3
 R^3

wherein R^3 - R^5 are each hydrogen and R^1 and R^2 are the same or different and represent C_1 - C_6 alkyl, and said anion is halogen.

11. (Original) The method according to claim 1 wherein the cation of the ionic liquid solvent is

wherein R^{10} , R^{11} , R^{12} and R^{13} are independently a C_1 - C_{30} alkyl, C_3 - C_8 carbocyclic or C_3 - C_8 heterocyclic group and the anion of the ionic liquid solvent is halogen, pseudohalogen, perchlorate, C_1 - C_6 carboxylate or hydroxide.

- 12. (Previously Presented) The method according to claim 1, further comprising separating the depolymerization products from the solution by adding a non-solvent for the depolymerization products to precipitate the depolymerization products.
- 13. (Original) The method according to claim 12 wherein said non-solvent is an alcohol, a ketone, acetonitrile, dichloromethane, a polyglycol, an ether or water.
- 14. (Previously Presented) The method according to claim 1, further comprising separating the depolymerization products from the solution by extraction with a non-solvent for the ionic liquid solvent.
- 15. (Previously Presented) The method according to claim 2 wherein pressure is applied to assist in dissolution and depolymerization.
- 16. (Previously Presented) The method according to claim 1 wherein the depolymerization temperature is at least 80°C.

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17. (Previously Presented) The method according to claim 10 wherein said anion is chloride.